

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,082		09/18/2003	Katsuhiko Ito	14470.0011US01	8980
23552	7590	03/08/2005		EXAM	INER
MERCHANT & GOULD PC P.O. BOX 2903				HO, HA DINH	
MINNEAPOLIS, MN 55402-0903				ART UNIT	PAPER NUMBER
				3681	
				DATE MAILED: 03/08/2003	DATE MAILED: 03/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u></u>						
6		Application No.	Applicant(s)				
		10/666,082	ITO ET AL.				
//	Office Action Summary	Examiner	Art Unit				
		Ha D. Ho	3681				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM							
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)🖂	Responsive to communication(s) filed on 13	January 2005.					
	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	, — · · · · · · · · · · · · · · · · · ·						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositio	on of Claims						
4)🖂	☑ Claim(s) <u>1-9</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>4 and 5</u> is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-3 and 6-9</u> is/are rejected.						
8)							
Application	on Papers		,				
9)⊠ 1	The specification is objected to by the Exami	iner.					
	· · · · · · · · · · · · · · · · · · ·		Examiner.				
) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
•	1.⊠ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* S	* See the attached detailed Office action for a list of the certified copies not received.						
·							
Attachment(4\⊠ N=#==	• •						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da					
3) 🔯 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) 🔲 Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Mail Date <u>2/9/04</u> . 6) ☐ Other:							

Art Unit: 3681

DETAILED ACTION

1. This is the first Office Action on the merits of Application No. 10/666,082 filed on 9/18/03. Claims 1-9 are currently pending.

Election/Restrictions

- 2. Applicant's election without traverse of the invention of group 1, claims 1-3 and 6-9 in the reply filed on 01/13/05 is acknowledged.
- 3. Claims 4 and 5 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

 Election was made without traverse in the reply filed on 01/13/05.

Specification

4. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

5. The abstract of the disclosure is objected to because of exceeding 150 words in length.

Correction is required. See MPEP § 608.01(b).

Application/Control Number: 10/666,082

Art Unit: 3681

Claim Rejections - 35 USC § 103

Page 3

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-3 and 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ito et al. (US 6,470,770) in view of Kobayashi et al. (US 6,857,494).

Ito et al show a power transmission apparatus having all the features recited in claims 1-3 and 6-9, including an engine 4, a cylinder block 13, a starting clutch 33, a crankshaft 5, a hydrostatic continuously variable transmission 40 having hydraulic pump 42 and hydraulic motor 44, a speed change driving member 64 for moving a speed changing driving shaft 65.

Ito et al show the starting clutch be a centrifugal clutch, not a torque converter.

Kobayashi et al show a power transmission apparatus having a starting clutch 8 be a torque converter.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Ito et al by replacing the centrifugal clutch by the torque converter in view of Kobayashi et al so that when the engine speed is rapidly decreased from the high-speed side on account of the characteristics of the torque converter, the rotation of output side of the torque converter can be maintained at a high speed, thereby restraining tight-corner braking phenomenon during the condition (col. 18, lines 12-19).

Application/Control Number: 10/666,082

Art Unit: 3681

Cited Prior Art

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Ito et al.'413, Doyle'691, and Ishino'473 which each shows a power transmission apparatus including an engine, a starting clutch, a CVT having a hydraulic pump and a hydraulic motor.

Communication

9. Submission of your response by facsimile transmission is encouraged. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9326 for regular communications and (703) 872-9327 for After Final communications. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence not permitted by facsimile transmission, see M.P.E.P. 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check should not be submitting by facsimile transmission separately from the check. Responses submitted by facsimile transmission should include a Certificate of Transmission (M.P.E.P., 512). The following is an example of the format the certification might take:

I hereby certify that this correspon	idence is being facsimile transmitted to
the Patent and Trademark Office of	on
·	(Date)
Typed or printed name of person s	igning this certificate:
	· -
(Signature)	

If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and M.P.E.P.. 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the

Page 4

Application/Control Number: 10/666,082

Art Unit: 3681

processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Examiner Ho whose telephone number is (703) 305-0738 (or 571-272-7091 after April 2005). The examiner can normally be reached on Monday-Friday from 7:30 A.M. to 5:00 P.M. Eastern Standard Time. If attempts to reach the examiner by phone are unsuccessful, the examiner's supervisor, Mr. Charles Marmor, can be reached at (703) 308-0830 (or 571-272-7095 after April 2005).

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HDH (703) 305-0738 March 4, 2005 HAHO
PRIMARY EXAMINED

Art Unit 3681

3/4/05

Page 5